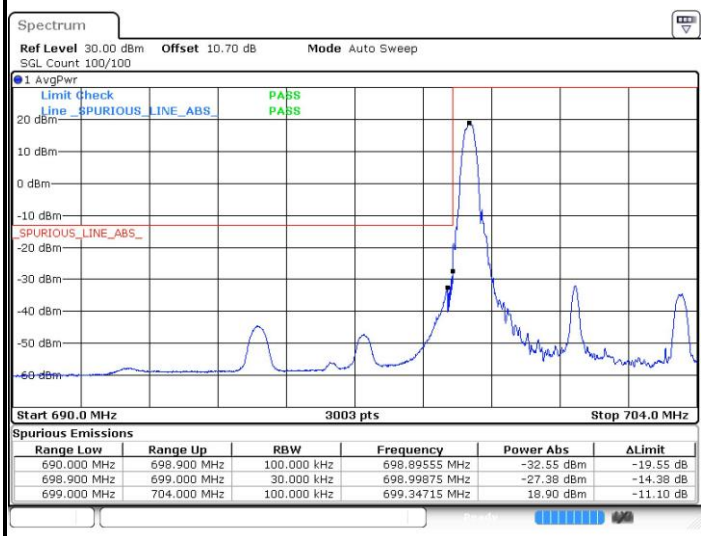
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB

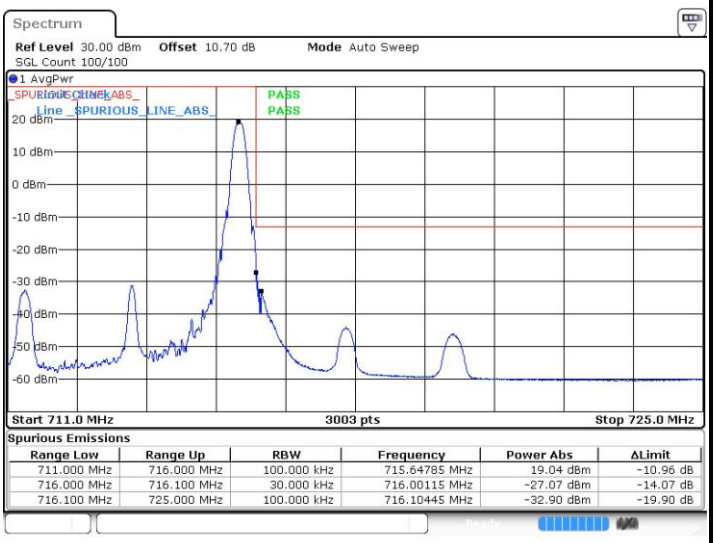


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.55 dBm	-19.55 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99875 MHz	-27.38 dBm	-14.38 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.34715 MHz	18.90 dBm	-11.10 dB

Date: 7.JAN.2019 15:27:52

Highest Band Edge / 1 RB

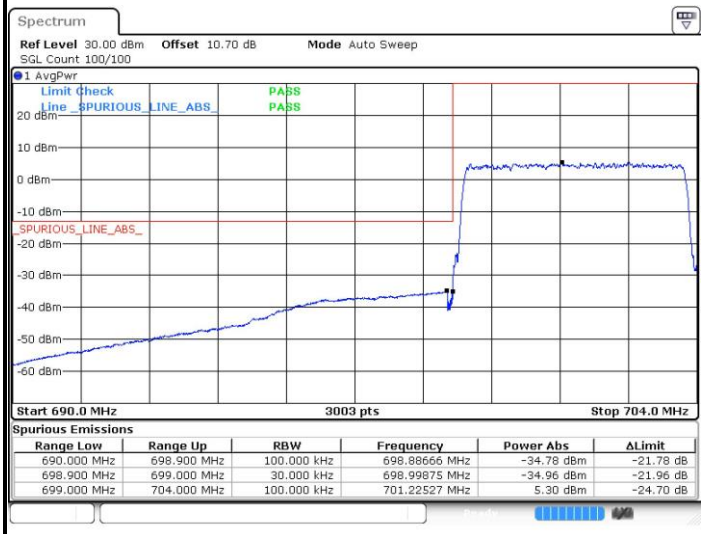


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.64785 MHz	19.04 dBm	-10.96 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00115 MHz	-27.07 dBm	-14.07 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.90 dBm	-19.90 dB

Date: 7.JAN.2019 15:32:39

Lowest Band Edge / Full RB

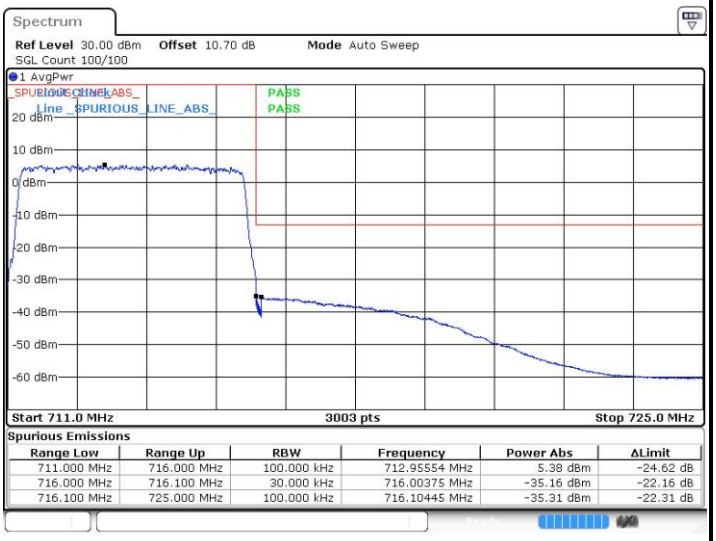


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-34.78 dBm	-21.78 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99875 MHz	-34.96 dBm	-21.96 dB
699.000 MHz	704.000 MHz	100.000 kHz	701.22527 MHz	5.30 dBm	-24.70 dB

Date: 7.JAN.2019 15:26:52

Highest Band Edge / Full RB



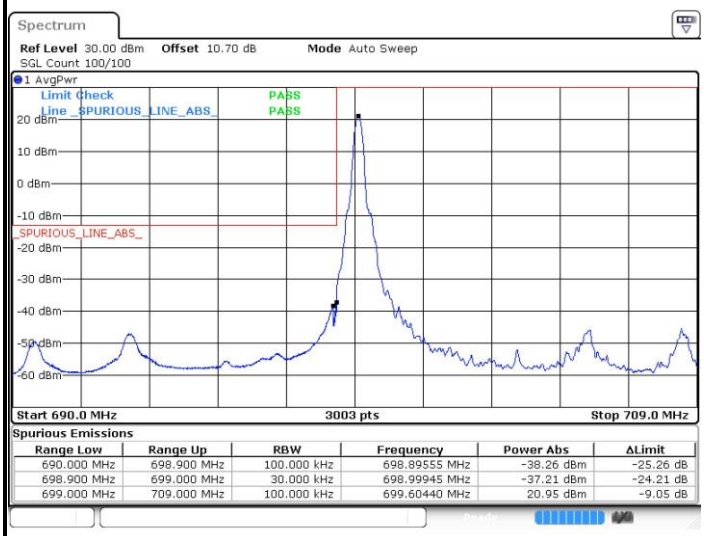
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.95554 MHz	5.38 dBm	-24.62 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00375 MHz	-35.16 dBm	-22.16 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.31 dBm	-22.31 dB

Date: 7.JAN.2019 15:31:38

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

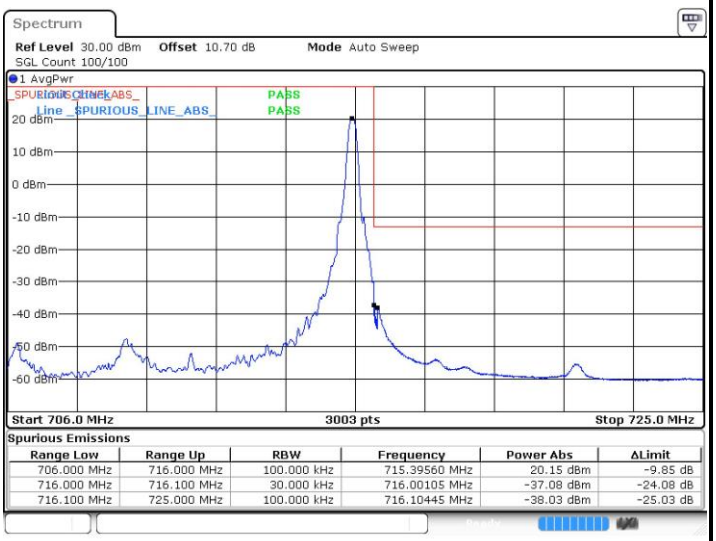


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-38.26 dBm	-25.26 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99945 MHz	-37.21 dBm	-24.21 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.60440 MHz	20.95 dBm	-9.05 dB

Date: 7.JAN.2019 14:45:34

Highest Band Edge / 1 RB

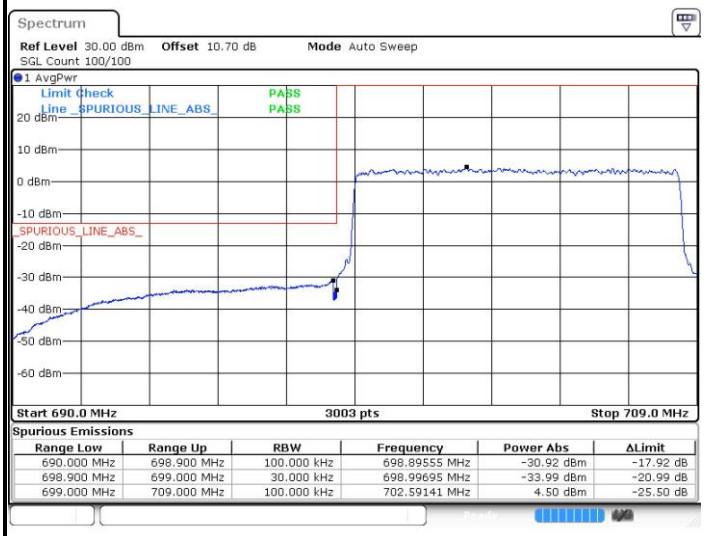


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.39560 MHz	20.15 dBm	-9.85 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00105 MHz	-37.08 dBm	-24.08 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-38.03 dBm	-25.03 dB

Date: 7.JAN.2019 14:55:07

Lowest Band Edge / Full RB

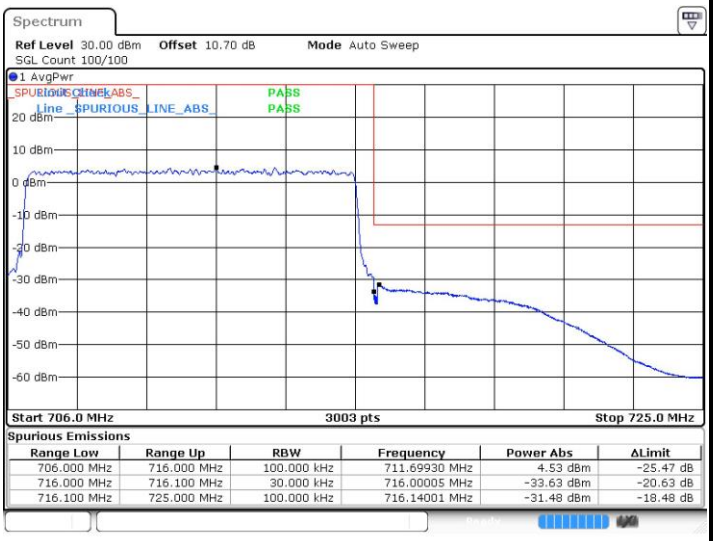


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-30.92 dBm	-17.92 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99695 MHz	-33.99 dBm	-20.99 dB
699.000 MHz	709.000 MHz	100.000 kHz	702.59141 MHz	4.50 dBm	-25.50 dB

Date: 7.JAN.2019 14:42:33

Highest Band Edge / Full RB



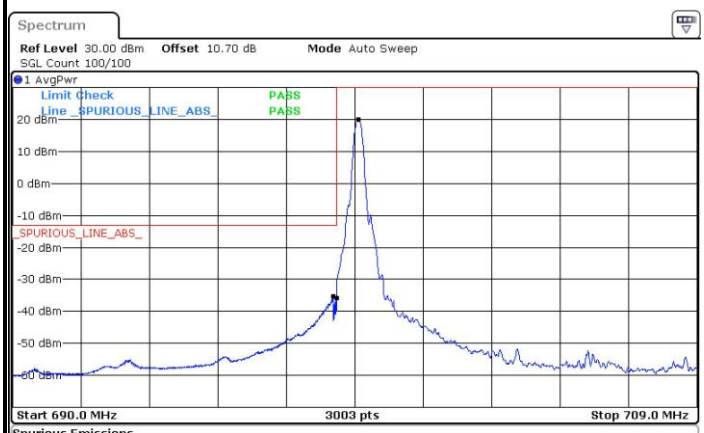
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	711.69930 MHz	4.53 dBm	-25.47 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-33.63 dBm	-20.63 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14001 MHz	-31.48 dBm	-18.48 dB

Date: 7.JAN.2019 14:52:07

LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

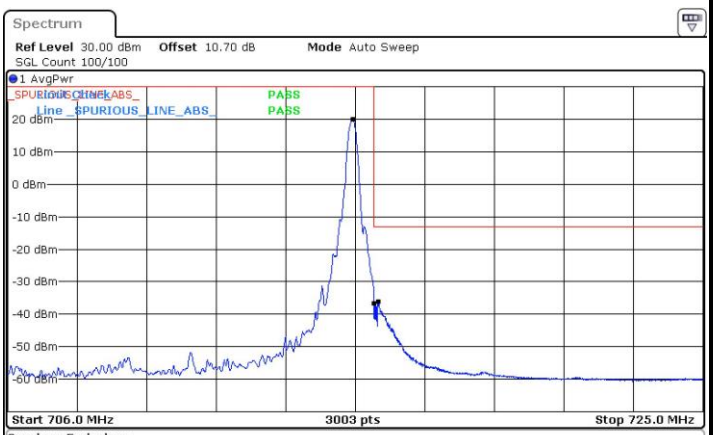


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-35.44 dBm	-22.44 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99755 MHz	-35.98 dBm	-22.98 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.59441 MHz	19.91 dBm	-10.09 dB

Date: 7.JAN.2019 14:44:33

Highest Band Edge / 1 RB

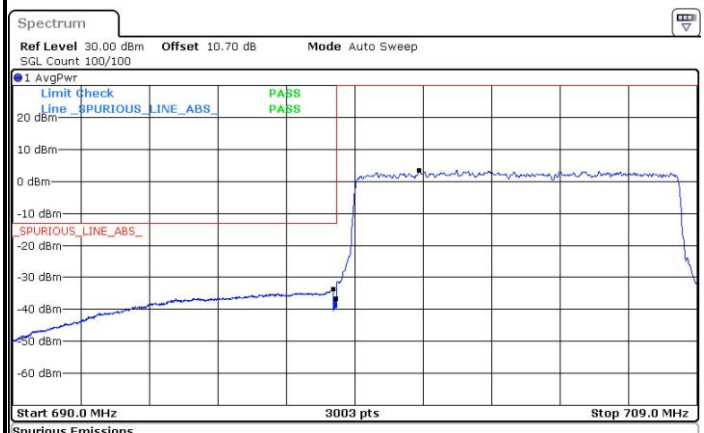


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.42557 MHz	19.95 dBm	-10.05 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01014 MHz	-36.72 dBm	-23.72 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-36.01 dBm	-23.01 dB

Date: 7.JAN.2019 14:54:07

Lowest Band Edge / Full RB

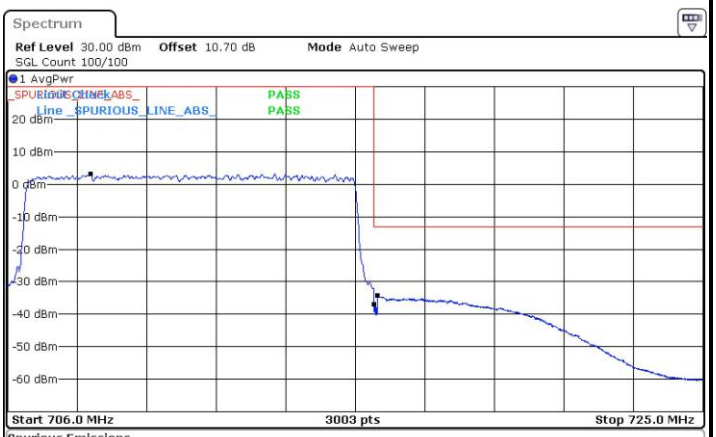


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.56 dBm	-20.56 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.96049 MHz	-36.68 dBm	-23.68 dB
699.000 MHz	709.000 MHz	100.000 kHz	701.28272 MHz	3.35 dBm	-26.65 dB

Date: 7.JAN.2019 14:43:33

Highest Band Edge / Full RB



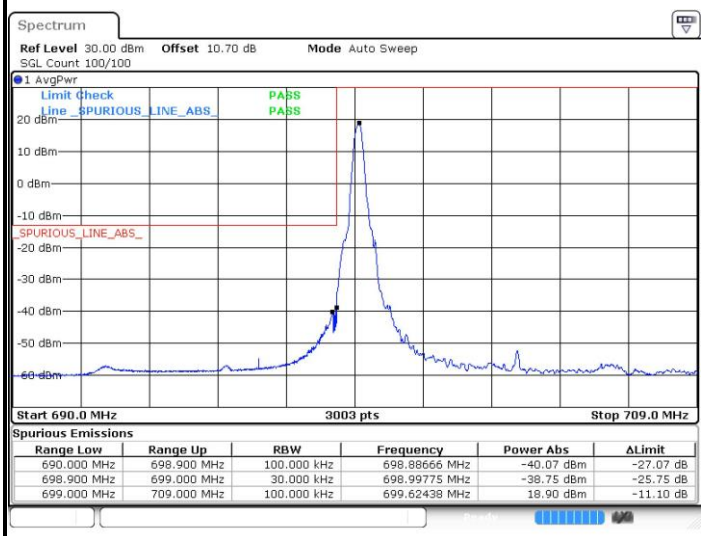
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	708.26274 MHz	3.19 dBm	-26.81 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01134 MHz	-36.90 dBm	-23.90 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.10 dBm	-21.10 dB

Date: 7.JAN.2019 14:53:07

LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

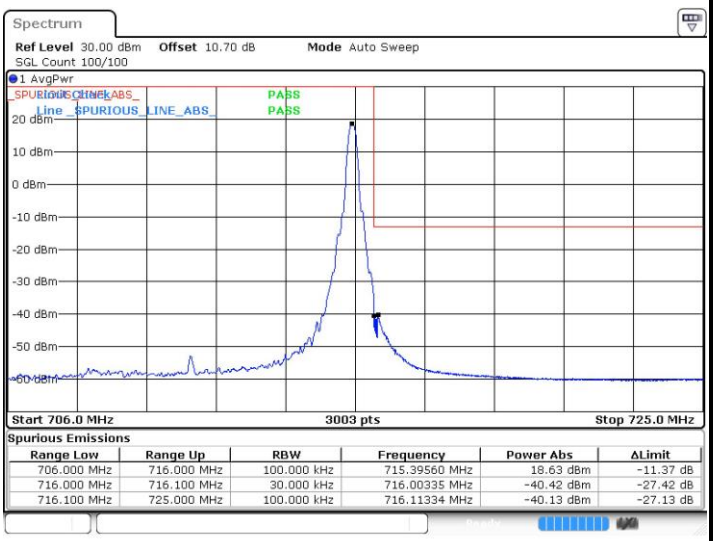


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-40.07 dBm	-27.07 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99775 MHz	-38.75 dBm	-25.75 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.62438 MHz	18.90 dBm	-11.10 dB

Date: 7.JAN.2019 15:36:02

Highest Band Edge / 1 RB

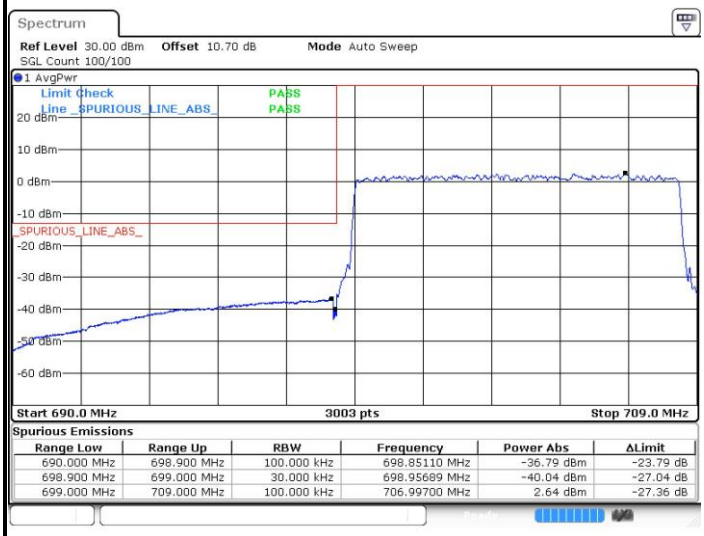


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.39560 MHz	18.63 dBm	-11.37 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00335 MHz	-40.42 dBm	-27.42 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-40.13 dBm	-27.13 dB

Date: 7.JAN.2019 15:40:49

Lowest Band Edge / Full RB

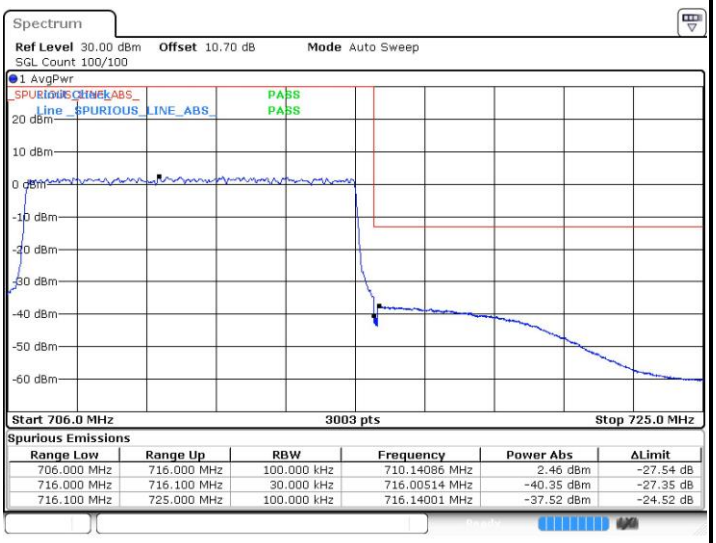


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85110 MHz	-36.79 dBm	-23.79 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.95689 MHz	-40.04 dBm	-27.04 dB
699.000 MHz	709.000 MHz	100.000 kHz	706.99700 MHz	2.64 dBm	-27.36 dB

Date: 7.JAN.2019 15:35:02

Highest Band Edge / Full RB



Spurious Emissions

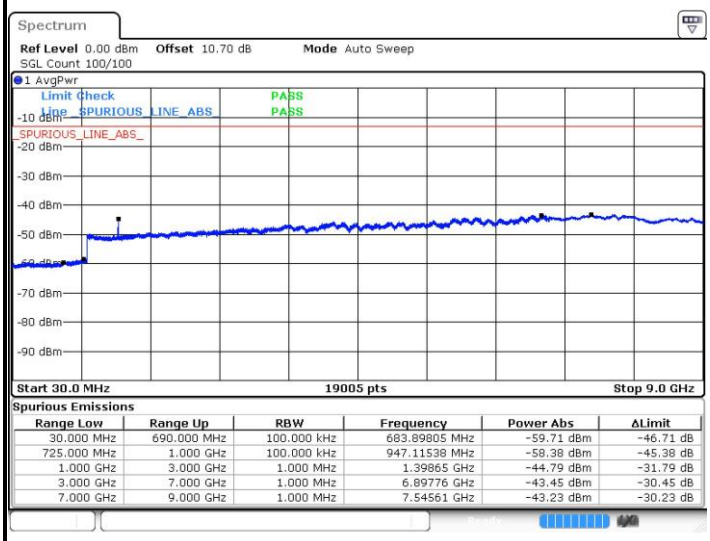
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	710.14086 MHz	2.46 dBm	-27.54 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00514 MHz	-40.35 dBm	-27.35 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14001 MHz	-37.52 dBm	-24.52 dB

Date: 7.JAN.2019 15:39:49

Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

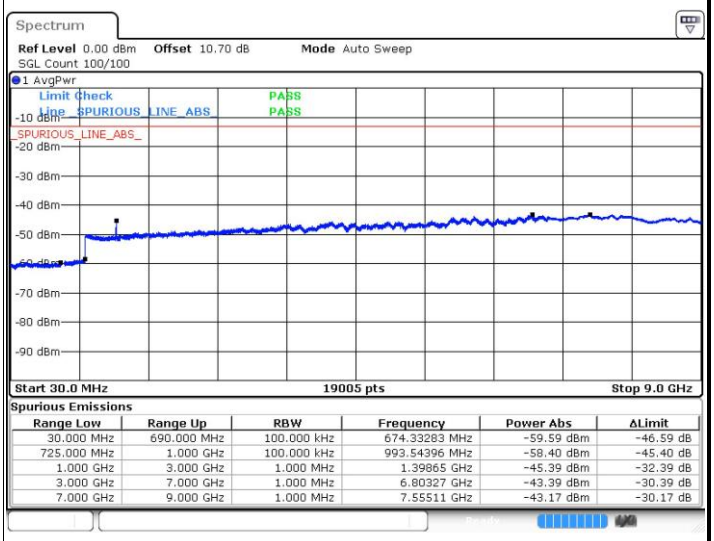


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	683.89805 MHz	-59.71 dBm	-46.71 dB
725.000 MHz	1.000 GHz	100.000 kHz	947.11538 MHz	-58.38 dBm	-45.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.79 dBm	-31.79 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89776 GHz	-43.45 dBm	-30.45 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54561 GHz	-43.23 dBm	-30.23 dB

Date: 7.JAN.2019 15:06:46

Lowest Channel / 16QAM

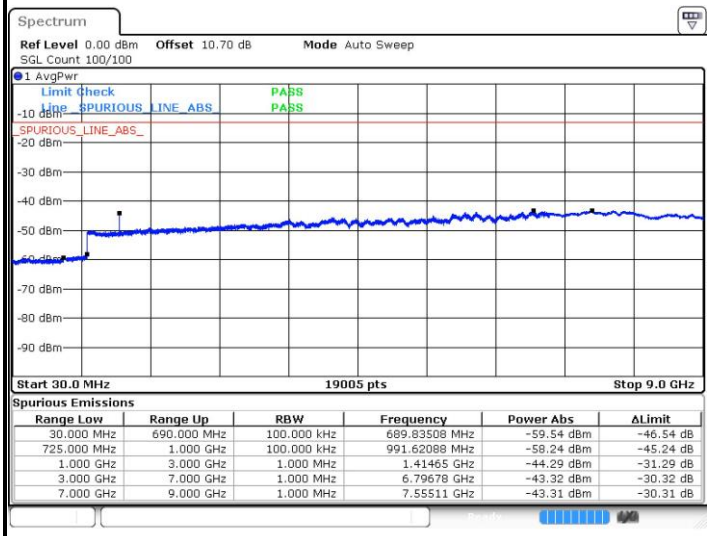


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	674.33283 MHz	-59.59 dBm	-46.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	993.54396 MHz	-58.40 dBm	-45.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.39 dBm	-32.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80327 GHz	-43.39 dBm	-30.39 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55511 GHz	-43.17 dBm	-30.17 dB

Date: 7.JAN.2019 15:07:46

Middle Channel / QPSK

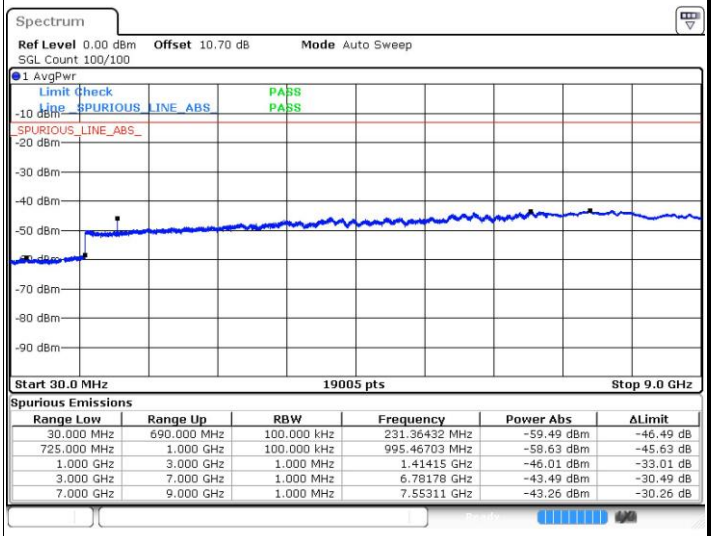


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.83508 MHz	-59.54 dBm	-46.54 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.62088 MHz	-58.24 dBm	-45.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41465 GHz	-44.29 dBm	-31.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79678 GHz	-43.32 dBm	-30.32 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55511 GHz	-43.31 dBm	-30.31 dB

Date: 7.JAN.2019 15:10:32

Middle Channel / 16QAM



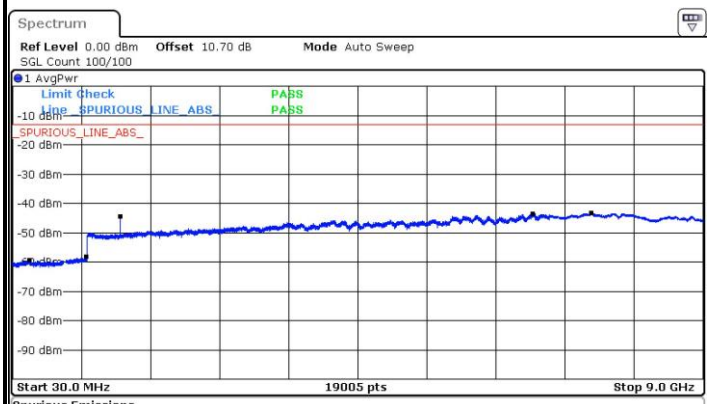
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	231.36432 MHz	-59.49 dBm	-46.49 dB
725.000 MHz	1.000 GHz	100.000 kHz	995.46703 MHz	-58.63 dBm	-45.63 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-46.01 dBm	-33.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78178 GHz	-43.49 dBm	-30.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55311 GHz	-43.26 dBm	-30.26 dB

Date: 7.JAN.2019 15:09:32

LTE Band 12 / 1.4MHz

Highest Channel / QPSK

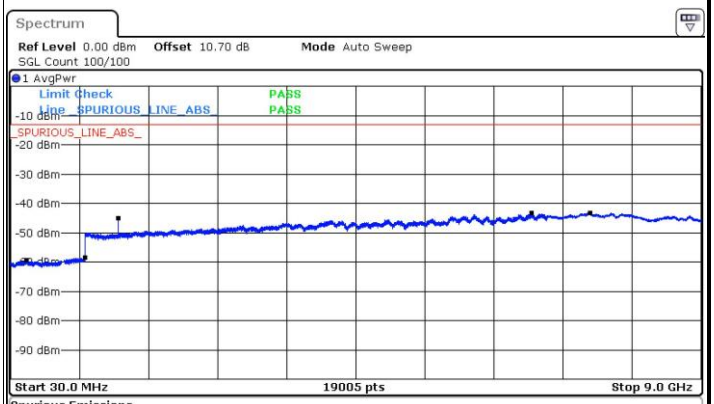


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	246.20690 MHz	-59.43 dBm	-46.43 dB
725.000 MHz	1.000 GHz	100.000 kHz	981.18132 MHz	-58.18 dBm	-45.18 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-44.51 dBm	-31.51 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78078 GHz	-43.46 dBm	-30.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55111 GHz	-43.31 dBm	-30.31 dB

Date: 7.JAN.2019 15:16:19

Highest Channel / 16QAM



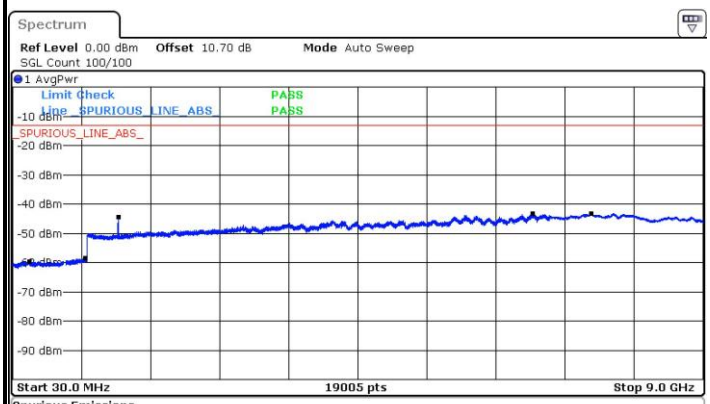
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	236.64168 MHz	-59.43 dBm	-46.43 dB
725.000 MHz	1.000 GHz	100.000 kHz	998.21429 MHz	-58.50 dBm	-45.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-44.96 dBm	-31.96 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79178 GHz	-43.39 dBm	-30.39 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55411 GHz	-43.30 dBm	-30.30 dB

Date: 7.JAN.2019 15:17:19

LTE Band 12 / 3MHz

Lowest Channel / QPSK

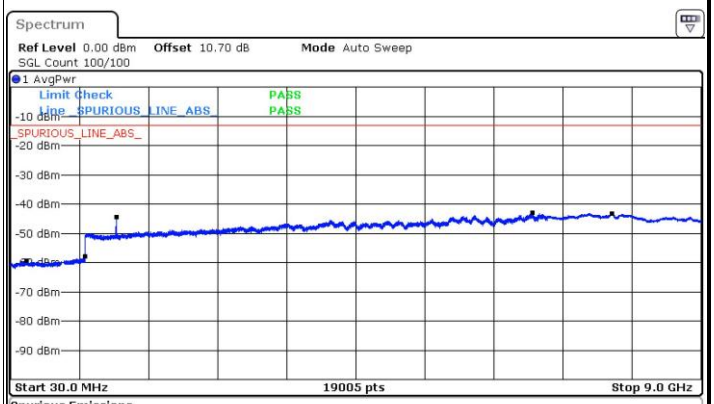


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	240.59970 MHz	-59.57 dBm	-46.57 dB
725.000 MHz	1.000 GHz	100.000 kHz	972.66484 MHz	-58.61 dBm	-45.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.36 dBm	-31.36 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78678 GHz	-43.41 dBm	-30.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54611 GHz	-43.14 dBm	-30.14 dB

Date: 7.JAN.2019 14:13:53

Lowest Channel / 16QAM



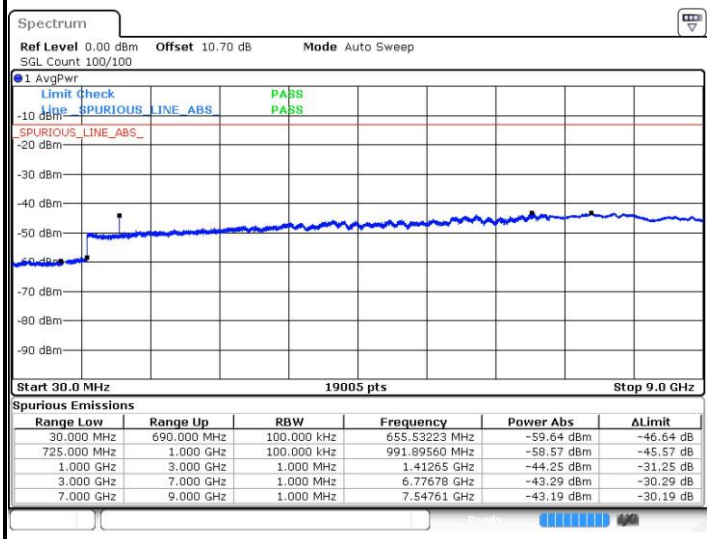
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	231.69415 MHz	-59.32 dBm	-46.32 dB
725.000 MHz	1.000 GHz	100.000 kHz	998.76374 MHz	-57.92 dBm	-44.92 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.51 dBm	-31.51 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80677 GHz	-43.03 dBm	-30.03 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.84254 GHz	-43.27 dBm	-30.27 dB

Date: 7.JAN.2019 14:14:53

LTE Band 12 / 3MHz

Middle Channel / QPSK

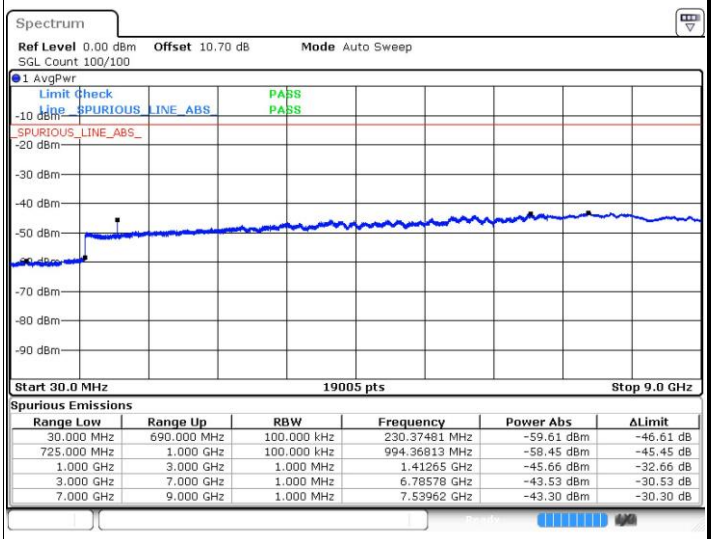


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	655.53223 MHz	-59.64 dBm	-46.64 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.89560 MHz	-58.57 dBm	-45.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-44.25 dBm	-31.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77678 GHz	-43.29 dBm	-30.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54761 GHz	-43.19 dBm	-30.19 dB

Date: 7.JAN.2019 14:17:40

Middle Channel / 16QAM

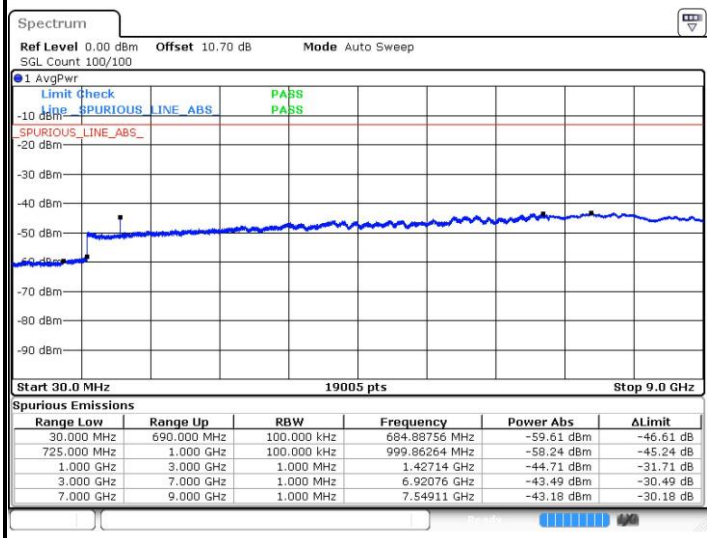


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	230.37481 MHz	-59.61 dBm	-46.61 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.36813 MHz	-58.45 dBm	-45.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-45.66 dBm	-32.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78578 GHz	-43.53 dBm	-30.53 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.53962 GHz	-43.30 dBm	-30.30 dB

Date: 7.JAN.2019 14:16:40

Highest Channel / QPSK

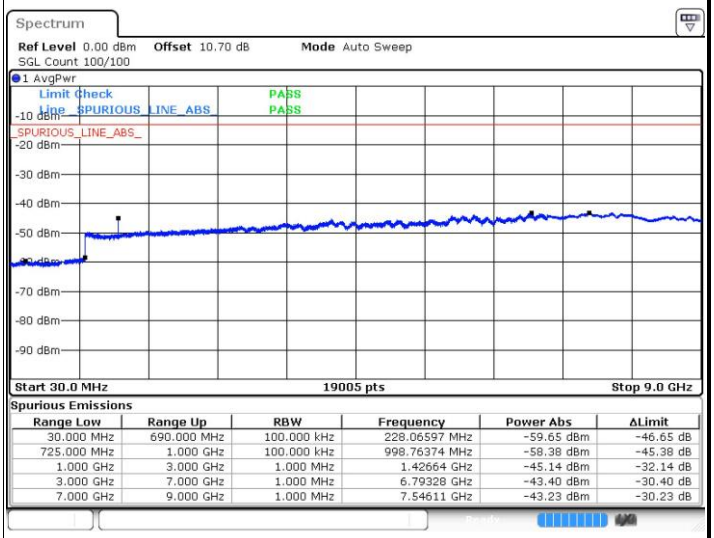


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	684.88756 MHz	-59.61 dBm	-46.61 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.86264 MHz	-58.24 dBm	-45.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42714 GHz	-44.71 dBm	-31.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92076 GHz	-43.49 dBm	-30.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54911 GHz	-43.18 dBm	-30.18 dB

Date: 7.JAN.2019 14:23:26

Highest Channel / 16QAM



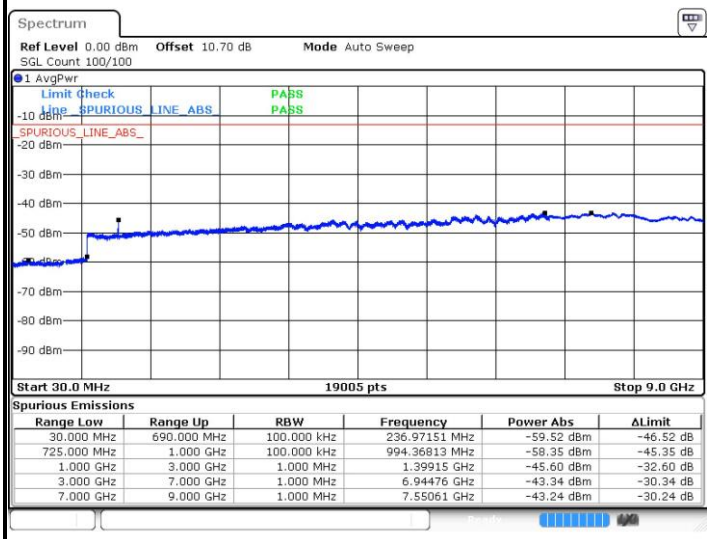
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	228.06597 MHz	-59.65 dBm	-46.65 dB
725.000 MHz	1.000 GHz	100.000 kHz	998.76374 MHz	-58.38 dBm	-45.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-45.14 dBm	-32.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79328 GHz	-43.40 dBm	-30.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54611 GHz	-43.23 dBm	-30.23 dB

Date: 7.JAN.2019 14:24:27

LTE Band 12 / 5MHz

Lowest Channel / QPSK

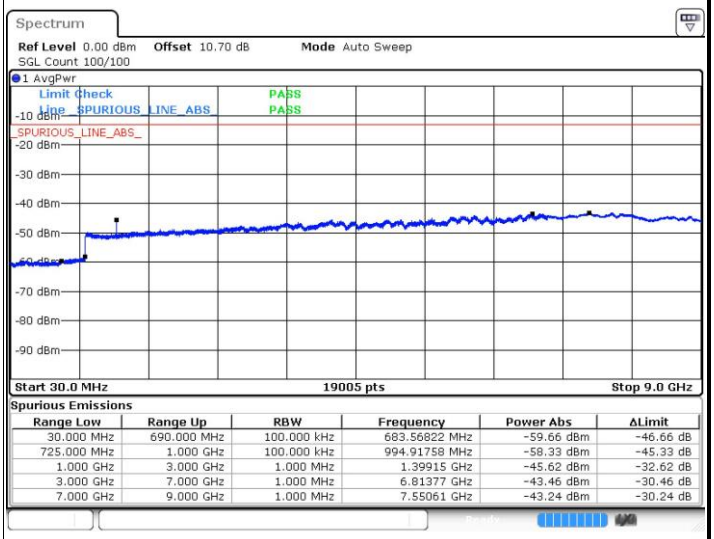


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	236.97151 MHz	-59.52 dBm	-46.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.36813 MHz	-58.35 dBm	-45.35 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-45.60 dBm	-32.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94476 GHz	-43.34 dBm	-30.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55061 GHz	-43.24 dBm	-30.24 dB

Date: 7.JAN.2019 14:30:14

Lowest Channel / 16QAM

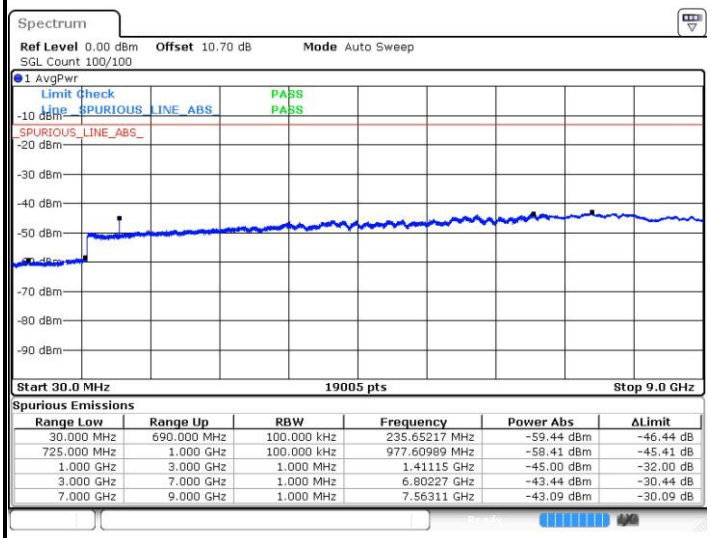


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	683.56822 MHz	-59.66 dBm	-46.66 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.91758 MHz	-58.33 dBm	-45.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-45.62 dBm	-32.62 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.81377 GHz	-43.46 dBm	-30.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55061 GHz	-43.24 dBm	-30.24 dB

Date: 7.JAN.2019 14:31:14

Middle Channel / QPSK

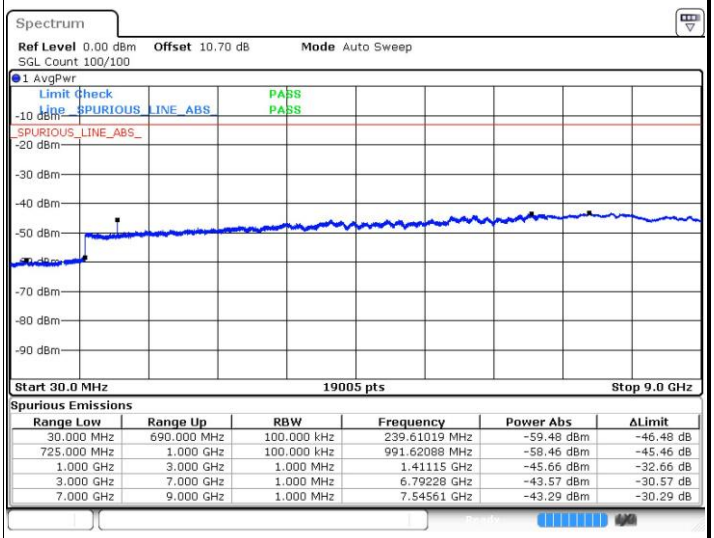


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	235.65217 MHz	-59.44 dBm	-46.44 dB
725.000 MHz	1.000 GHz	100.000 kHz	977.60989 MHz	-58.41 dBm	-45.41 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-45.00 dBm	-32.00 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80227 GHz	-43.44 dBm	-30.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56311 GHz	-43.09 dBm	-30.09 dB

Date: 7.JAN.2019 14:34:01

Middle Channel / 16QAM



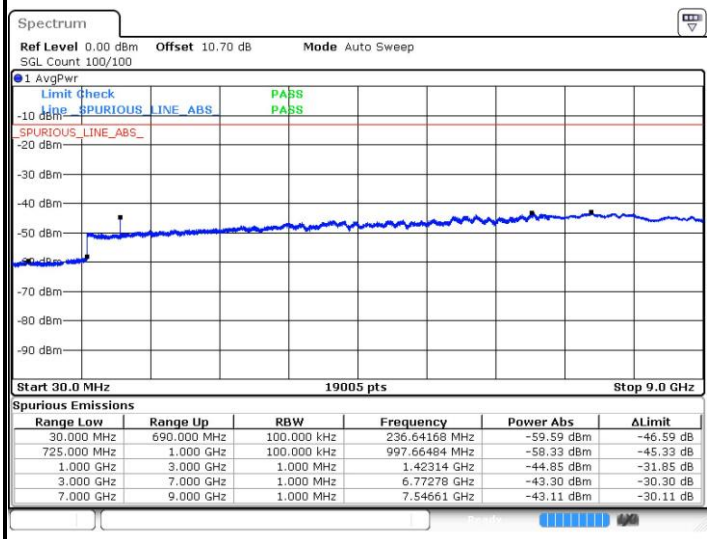
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	239.61019 MHz	-59.48 dBm	-46.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.62088 MHz	-58.46 dBm	-45.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-45.66 dBm	-32.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79228 GHz	-43.57 dBm	-30.57 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54561 GHz	-43.29 dBm	-30.29 dB

Date: 7.JAN.2019 14:33:00

LTE Band 12 / 5MHz

Highest Channel / QPSK

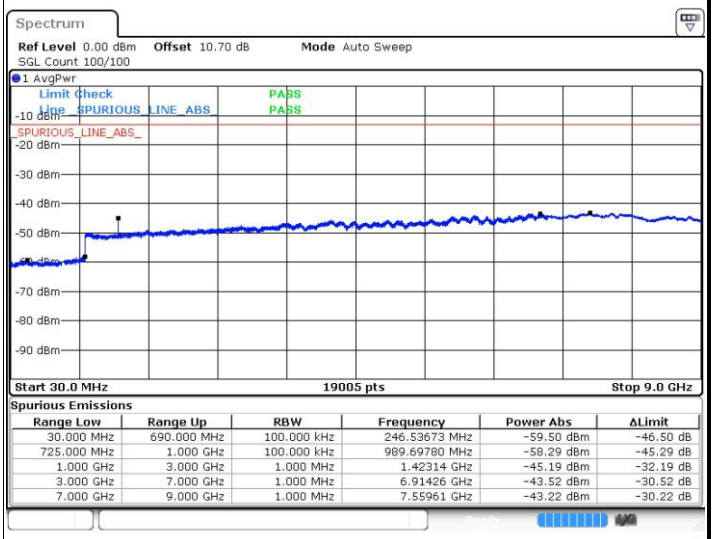


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	236.64168 MHz	-59.59 dBm	-46.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	997.66484 MHz	-58.33 dBm	-45.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-44.85 dBm	-31.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77278 GHz	-43.30 dBm	-30.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54661 GHz	-43.11 dBm	-30.11 dB

Date: 7.JAN.2019 14:40:48

Highest Channel / 16QAM



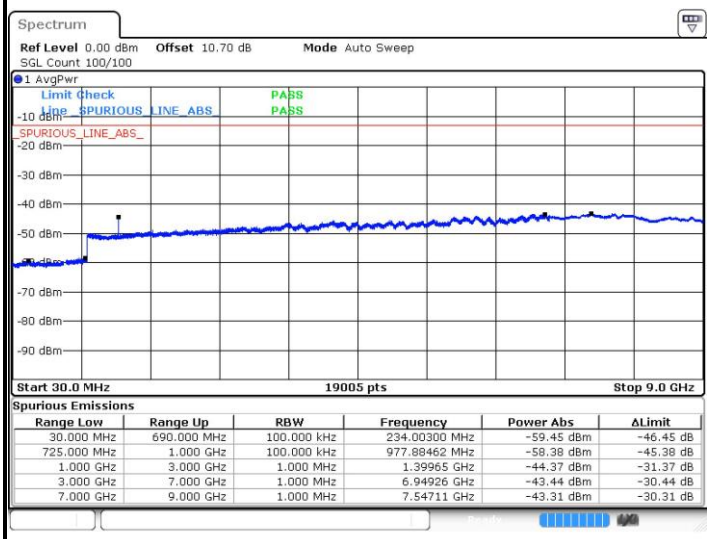
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	246.53673 MHz	-59.50 dBm	-46.50 dB
725.000 MHz	1.000 GHz	100.000 kHz	989.69780 MHz	-58.29 dBm	-45.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-45.19 dBm	-32.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91426 GHz	-43.52 dBm	-30.52 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55961 GHz	-43.22 dBm	-30.22 dB

Date: 7.JAN.2019 14:39:47

LTE Band 12 / 10MHz

Lowest Channel / QPSK

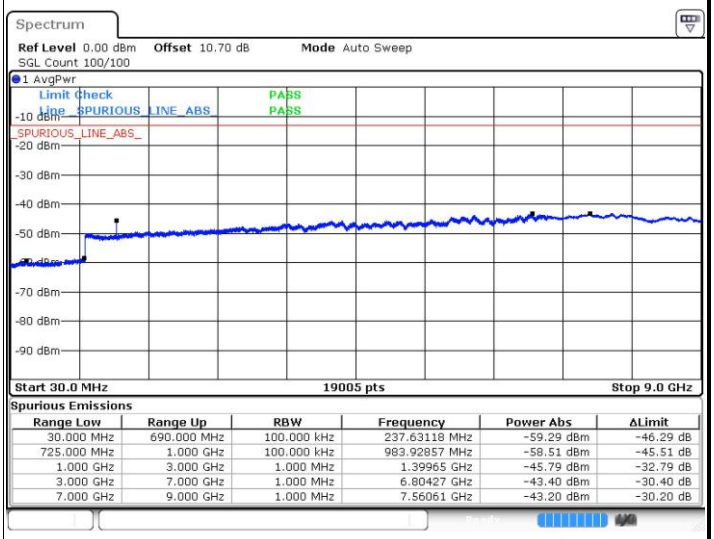


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	234.00300 MHz	-59.45 dBm	-46.45 dB
725.000 MHz	1.000 GHz	100.000 kHz	977.88462 MHz	-58.38 dBm	-45.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.37 dBm	-31.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94926 GHz	-43.44 dBm	-30.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-43.31 dBm	-30.31 dB

Date: 7.JAN.2019 14:46:34

Lowest Channel / 16QAM



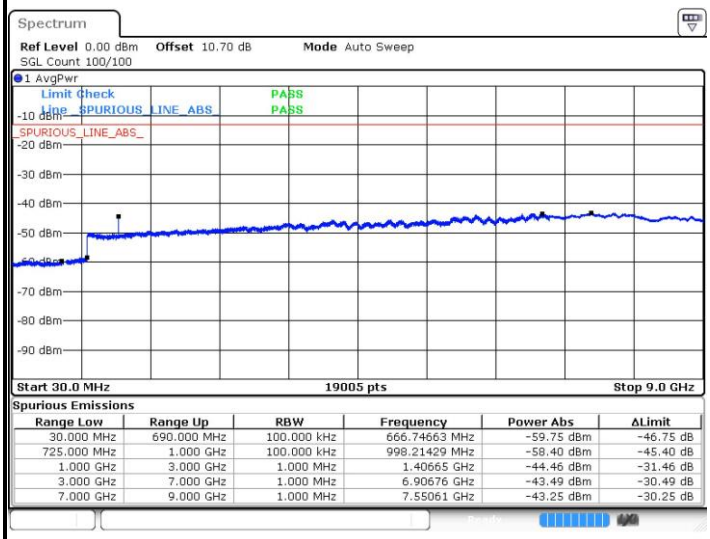
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	237.63118 MHz	-59.29 dBm	-46.29 dB
725.000 MHz	1.000 GHz	100.000 kHz	983.92857 MHz	-58.51 dBm	-45.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-45.79 dBm	-32.79 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80427 GHz	-43.40 dBm	-30.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56061 GHz	-43.20 dBm	-30.20 dB

Date: 7.JAN.2019 14:47:35

LTE Band 12 / 10MHz

Middle Channel / QPSK

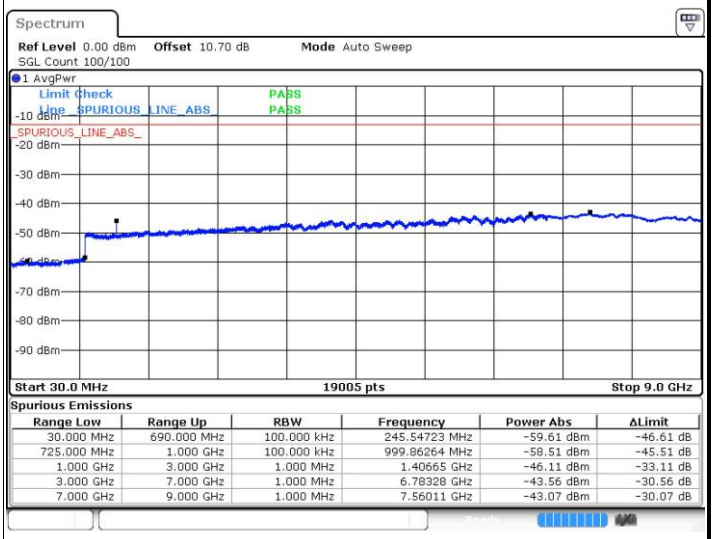


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	666.74663 MHz	-59.75 dBm	-46.75 dB
725.000 MHz	1.000 GHz	100.000 kHz	998.21429 MHz	-58.40 dBm	-45.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-44.46 dBm	-31.46 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90676 GHz	-43.49 dBm	-30.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55061 GHz	-43.25 dBm	-30.25 dB

Date: 7.JAN.2019 14:50:21

Middle Channel / 16QAM

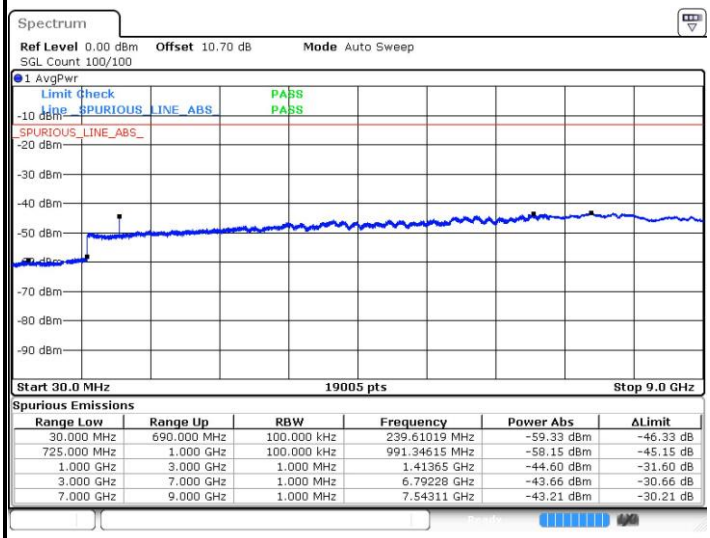


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	245.54723 MHz	-59.61 dBm	-46.61 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.86264 MHz	-58.51 dBm	-45.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-46.11 dBm	-33.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78328 GHz	-43.56 dBm	-30.56 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56011 GHz	-43.07 dBm	-30.07 dB

Date: 7.JAN.2019 14:49:20

Highest Channel / QPSK

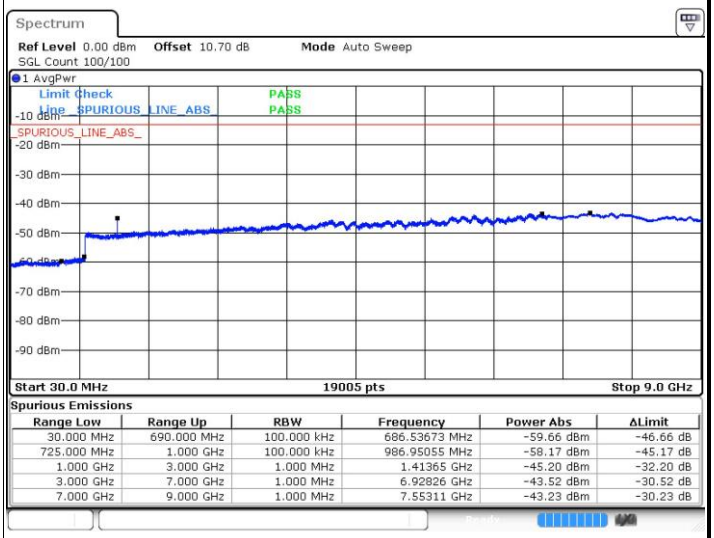


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	239.61019 MHz	-59.33 dBm	-46.33 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.34615 MHz	-58.15 dBm	-45.15 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.60 dBm	-31.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79228 GHz	-43.66 dBm	-30.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54311 GHz	-43.21 dBm	-30.21 dB

Date: 7.JAN.2019 14:56:08

Highest Channel / 16QAM



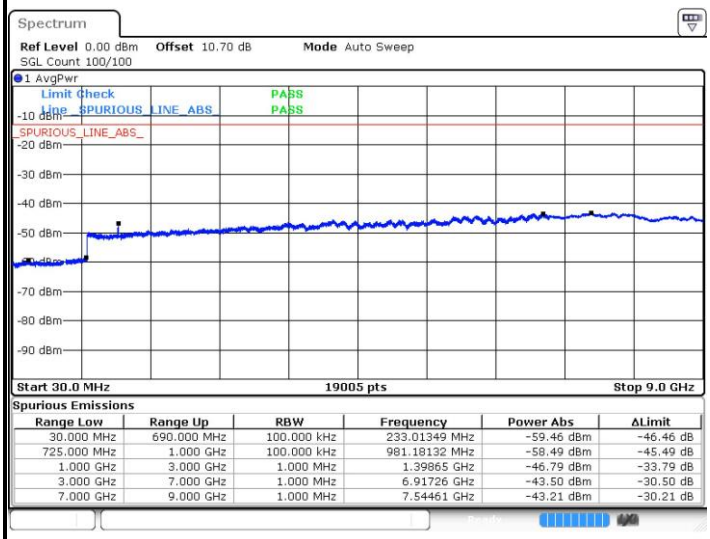
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.53673 MHz	-59.66 dBm	-46.66 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.95055 MHz	-58.17 dBm	-45.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-45.20 dBm	-32.20 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92826 GHz	-43.52 dBm	-30.52 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55311 GHz	-43.23 dBm	-30.23 dB

Date: 7.JAN.2019 14:57:08

LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

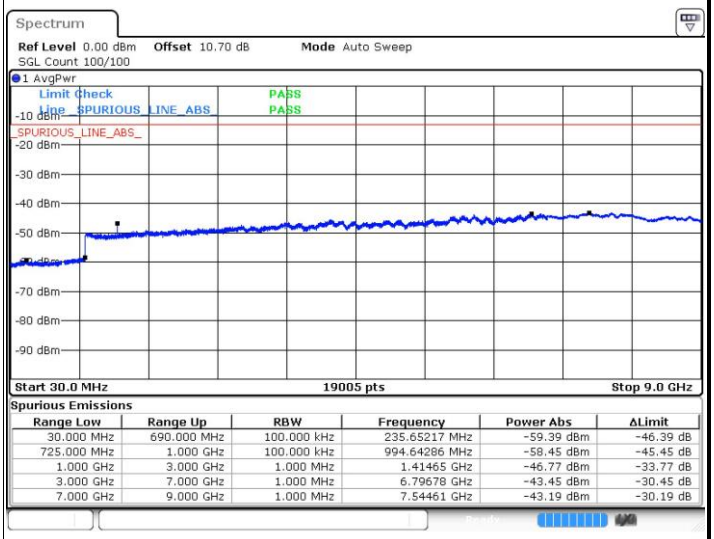


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	233.01349 MHz	-59.46 dBm	-46.46 dB
725.000 MHz	1.000 GHz	100.000 kHz	981.18132 MHz	-58.49 dBm	-45.49 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.79 dBm	-33.79 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91726 GHz	-43.50 dBm	-30.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54461 GHz	-43.21 dBm	-30.21 dB

Date: 7.JAN.2019 16:05:20

Middle Channel / 64QAM

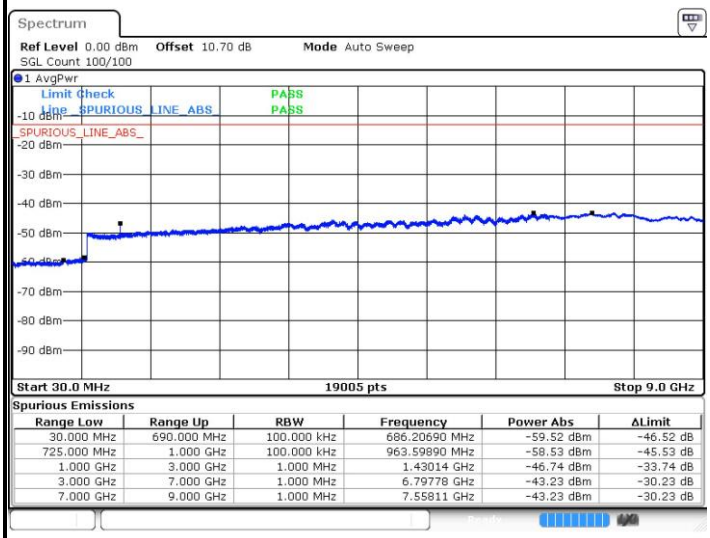


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	235.65217 MHz	-59.39 dBm	-46.39 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.64286 MHz	-58.45 dBm	-45.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41465 GHz	-46.77 dBm	-33.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79678 GHz	-43.45 dBm	-30.45 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54461 GHz	-43.19 dBm	-30.19 dB

Date: 7.JAN.2019 16:06:43

Highest Channel / 64QAM



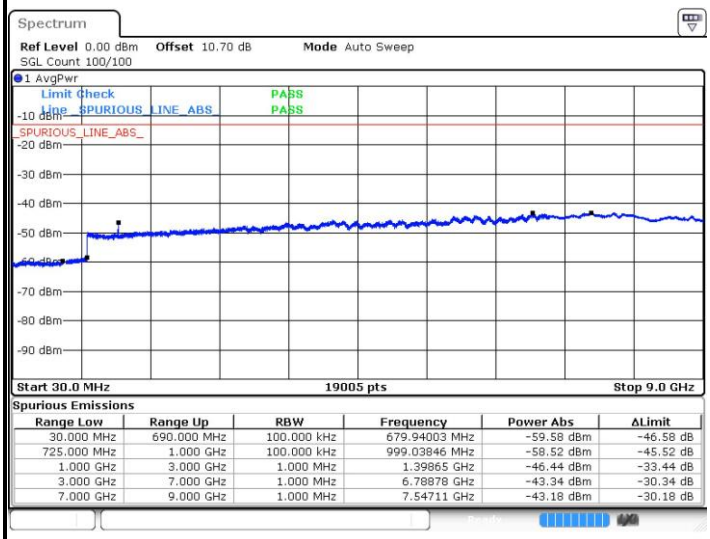
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.20690 MHz	-59.52 dBm	-46.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	963.59890 MHz	-58.53 dBm	-45.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-46.74 dBm	-33.74 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79778 GHz	-43.23 dBm	-30.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55811 GHz	-43.23 dBm	-30.23 dB

Date: 7.JAN.2019 16:10:07

LTE Band 12 / 3MHz

Lowest Channel / 64QAM

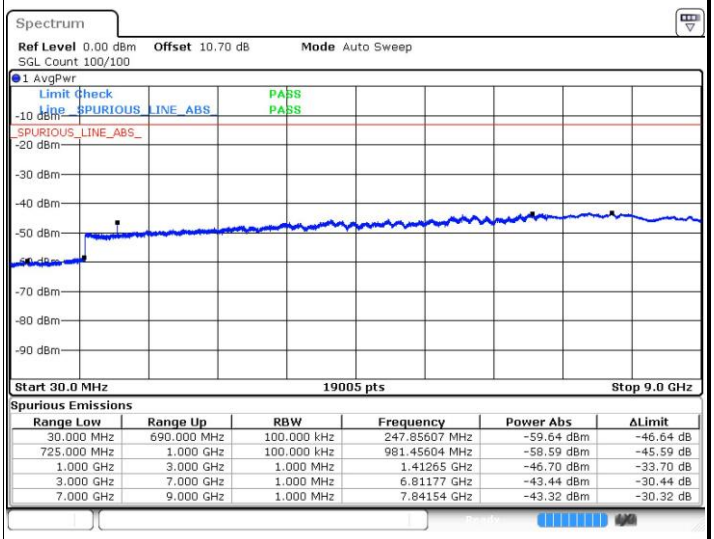


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	679.94003 MHz	-59.58 dBm	-46.58 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.03846 MHz	-58.52 dBm	-45.52 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.44 dBm	-33.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78878 GHz	-43.34 dBm	-30.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-43.18 dBm	-30.18 dB

Date: 7.JAN.2019 15:20:43

Middle Channel / 64QAM

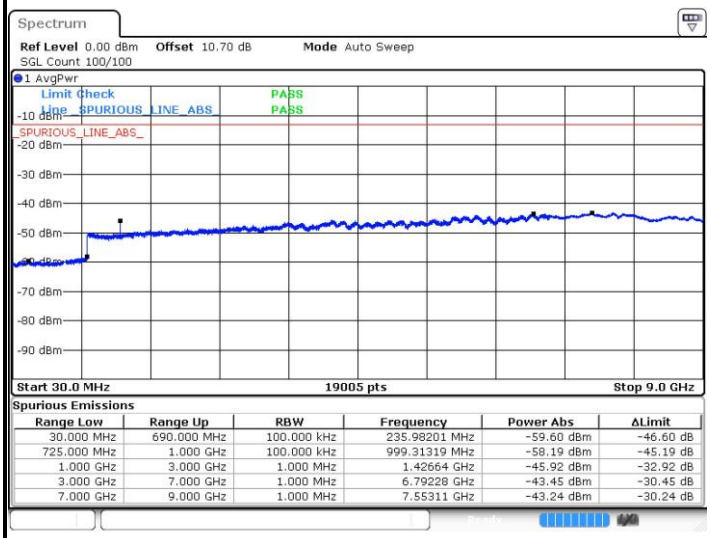


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	247.85607 MHz	-59.64 dBm	-46.64 dB
725.000 MHz	1.000 GHz	100.000 kHz	981.45604 MHz	-58.59 dBm	-45.59 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-46.70 dBm	-33.70 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.81177 GHz	-43.44 dBm	-30.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.84154 GHz	-43.32 dBm	-30.32 dB

Date: 7.JAN.2019 15:22:06

Highest Channel / 64QAM



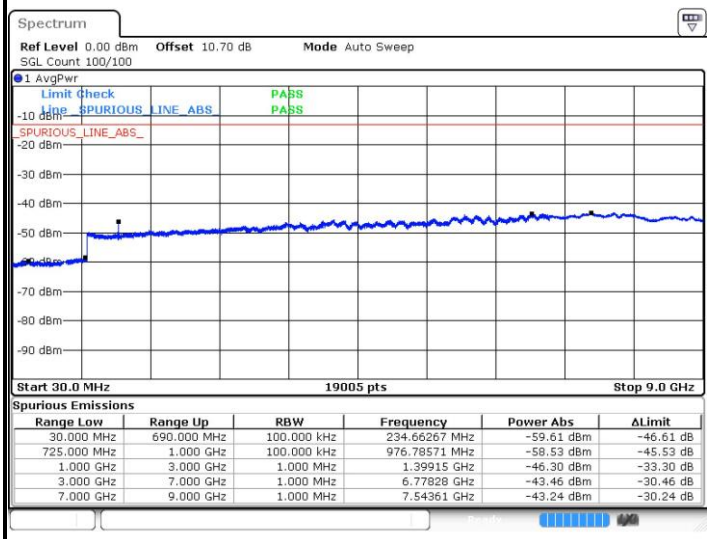
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	235.98201 MHz	-59.60 dBm	-46.60 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.31319 MHz	-58.19 dBm	-45.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-45.92 dBm	-32.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79228 GHz	-43.45 dBm	-30.45 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55311 GHz	-43.24 dBm	-30.24 dB

Date: 7.JAN.2019 15:25:29

LTE Band 12 / 5MHz

Lowest Channel / 64QAM

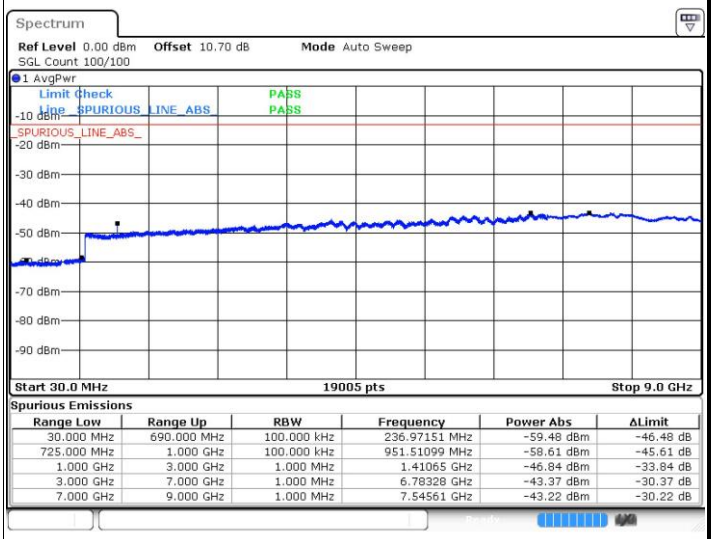


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	234.66267 MHz	-59.61 dBm	-46.61 dB
725.000 MHz	1.000 GHz	100.000 kHz	976.78571 MHz	-58.53 dBm	-45.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-46.30 dBm	-33.30 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77828 GHz	-43.46 dBm	-30.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54361 GHz	-43.24 dBm	-30.24 dB

Date: 7.JAN.2019 15:28:53

Middle Channel / 64QAM

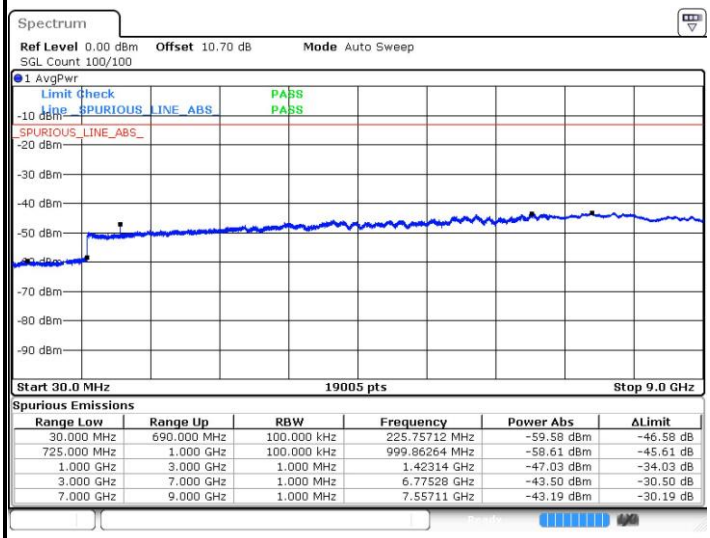


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	236.97151 MHz	-59.48 dBm	-46.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	951.51099 MHz	-58.61 dBm	-45.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41065 GHz	-46.84 dBm	-33.84 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78328 GHz	-43.37 dBm	-30.37 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54561 GHz	-43.22 dBm	-30.22 dB

Date: 7.JAN.2019 15:30:16

Highest Channel / 64QAM



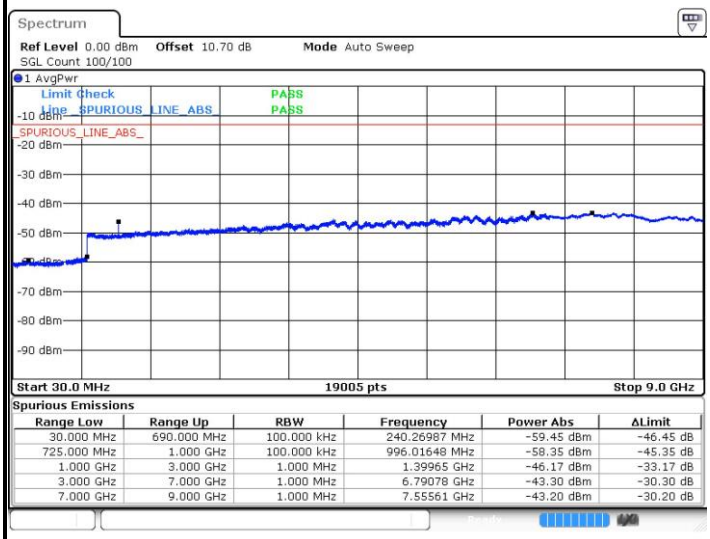
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	225.75712 MHz	-59.58 dBm	-46.58 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.86264 MHz	-58.61 dBm	-45.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-47.03 dBm	-34.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77528 GHz	-43.50 dBm	-30.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55711 GHz	-43.19 dBm	-30.19 dB

Date: 7.JAN.2019 15:33:39

LTE Band 12 / 10MHz

Lowest Channel / 64QAM

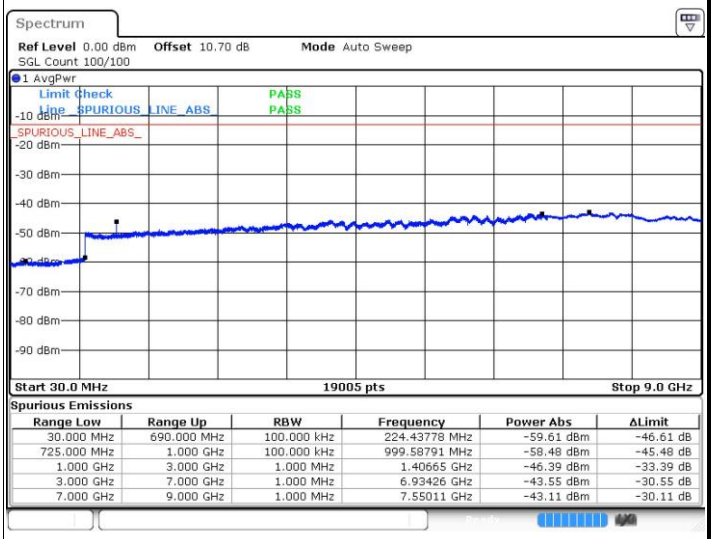


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	240.26987 MHz	-59.45 dBm	-46.45 dB
725.000 MHz	1.000 GHz	100.000 kHz	996.01648 MHz	-58.35 dBm	-45.35 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-46.17 dBm	-33.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79078 GHz	-43.30 dBm	-30.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55561 GHz	-43.20 dBm	-30.20 dB

Date: 7.JAN.2019 15:37:03

Middle Channel / 64QAM

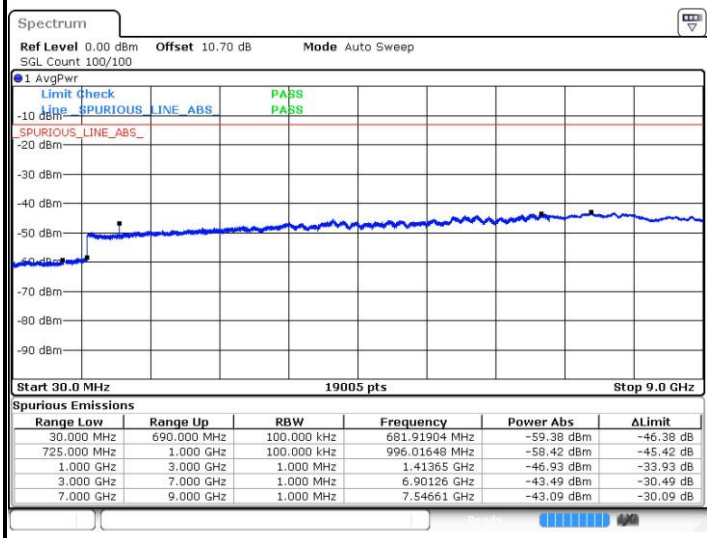


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	224.43778 MHz	-59.61 dBm	-46.61 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.58791 MHz	-58.48 dBm	-45.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-46.39 dBm	-33.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93426 GHz	-43.55 dBm	-30.55 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55011 GHz	-43.11 dBm	-30.11 dB

Date: 7.JAN.2019 15:38:26

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	681.91904 MHz	-59.38 dBm	-46.38 dB
725.000 MHz	1.000 GHz	100.000 kHz	996.01648 MHz	-58.42 dBm	-45.42 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.93 dBm	-33.93 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90126 GHz	-43.49 dBm	-30.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54661 GHz	-43.09 dBm	-30.09 dB

Date: 7.JAN.2019 15:41:50

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0117	PASS
40	Normal Voltage	0.0127	
30	Normal Voltage	0.0144	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0119	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0105	
-20	Normal Voltage	0.0109	
-30	Normal Voltage	0.0123	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0120	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

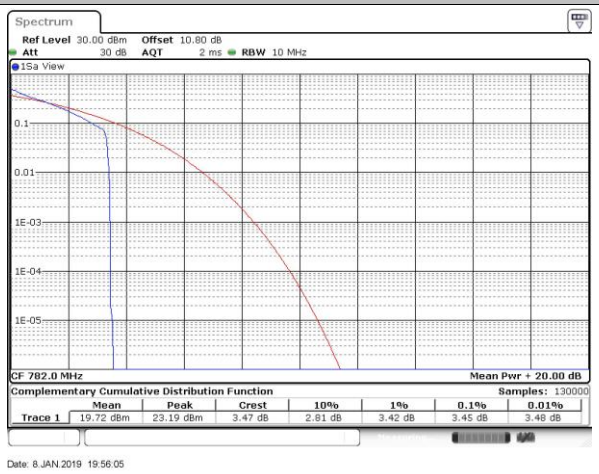
LTE Band 13

Peak-to-Average Ratio

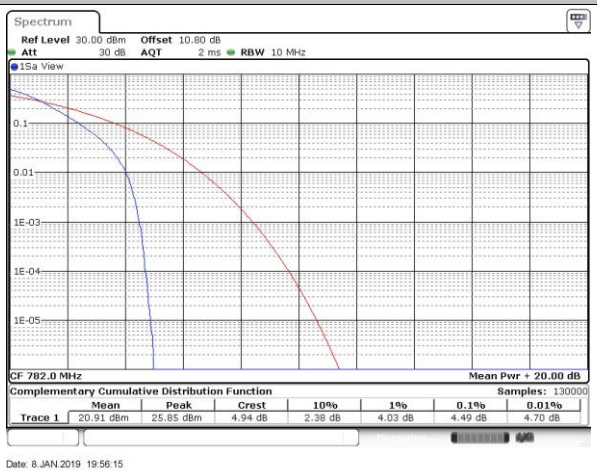
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.45	4.49	4.55	5.54	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.41	5.59	-	-	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

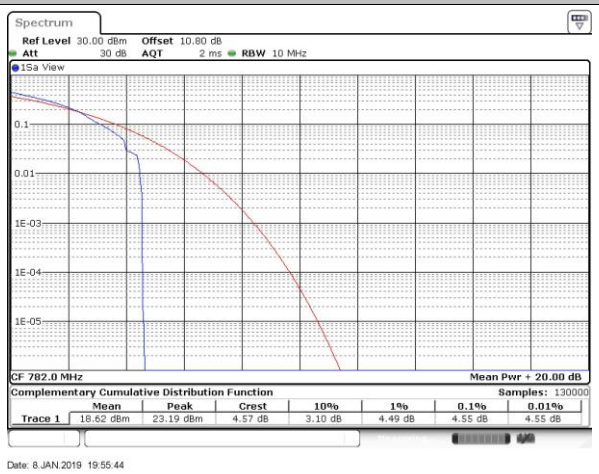


Middle Channel / Full RB

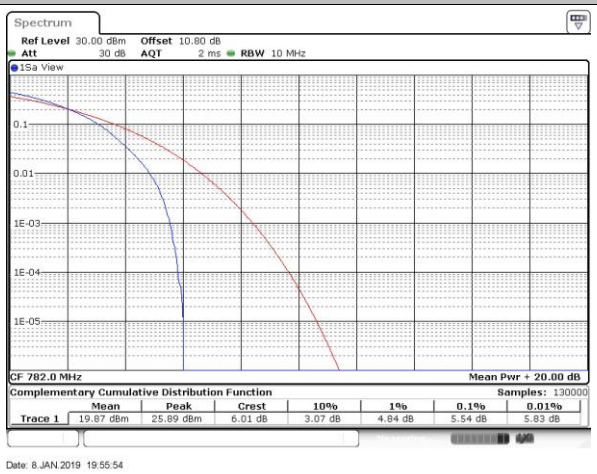


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

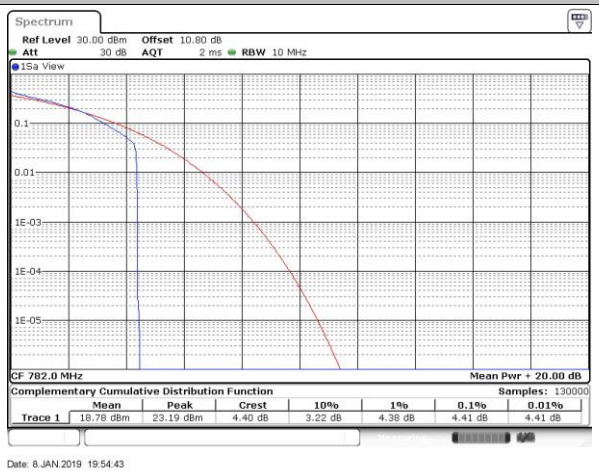


Middle Channel / Full RB

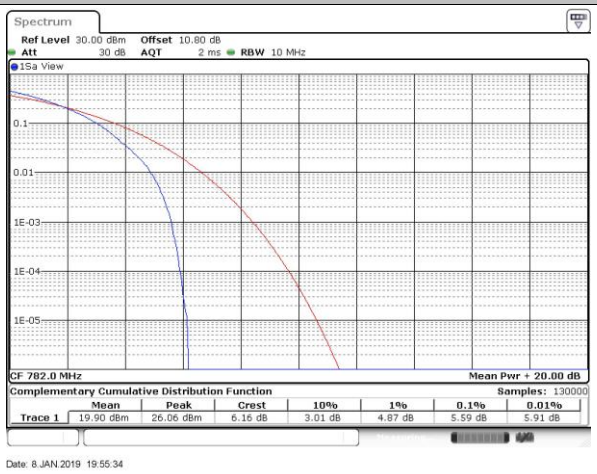


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB

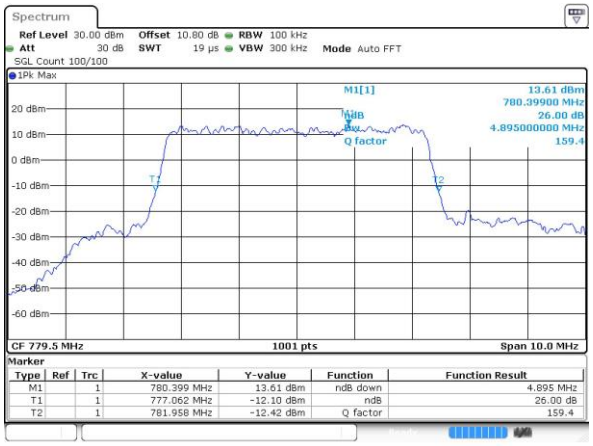


26dB Bandwidth

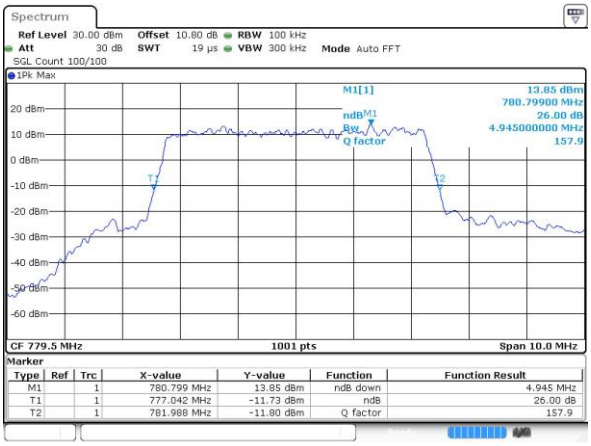
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.90	4.95	-	-	-	-	-	-
Middle CH	-	-	-	-	4.85	4.92	9.71	9.65	-	-	-	-
Highest CH	-	-	-	-	4.98	4.83	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.91	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.88	-	9.91	-	-	-	-	-
Highest CH	-	-	-	-	4.84	-	-	-	-	-	-	-

LTE Band 13

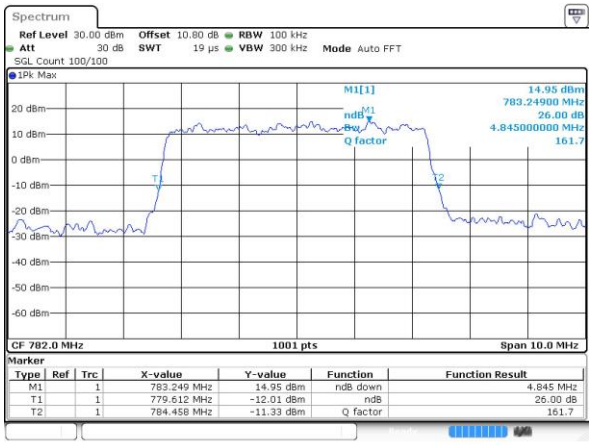
Lowest Channel / 5MHz / QPSK



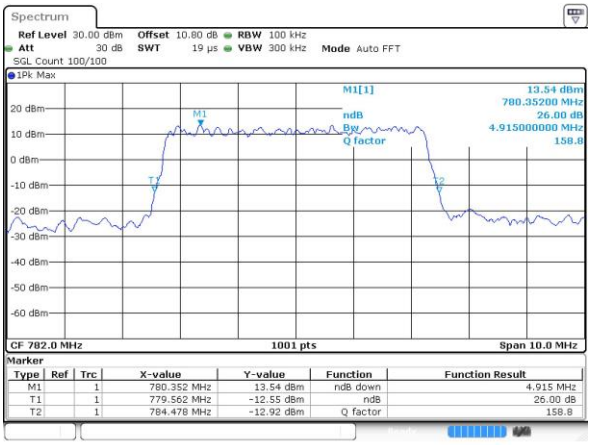
Lowest Channel / 5MHz / 16QAM



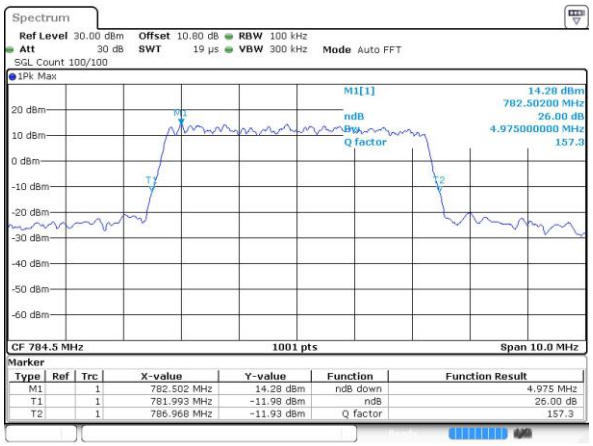
Middle Channel / 5MHz / QPSK



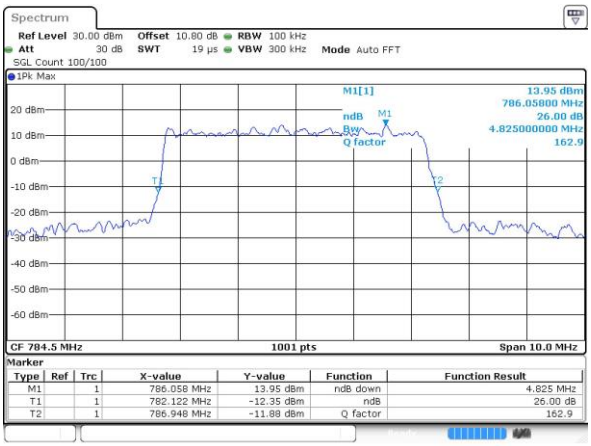
Middle Channel / 5MHz / 16QAM

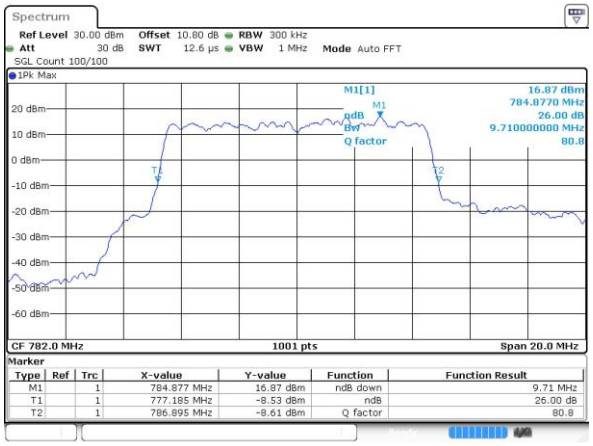
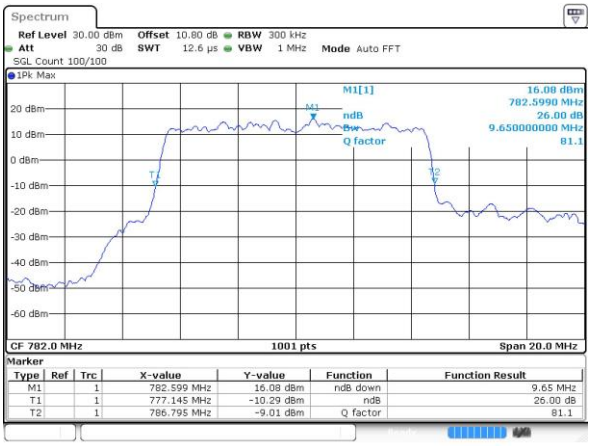


Highest Channel / 5MHz / QPSK



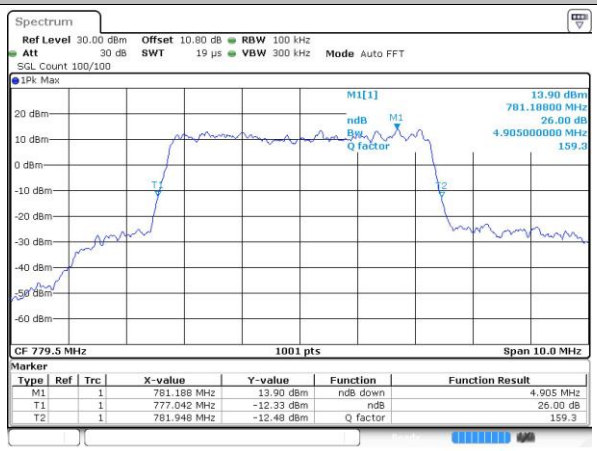
Highest Channel / 5MHz / 16QAM



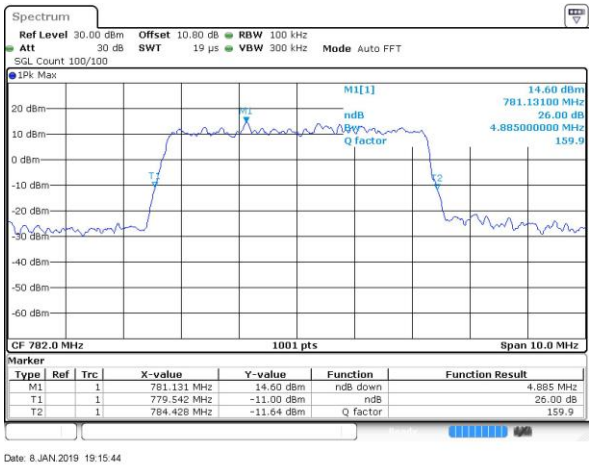
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 13

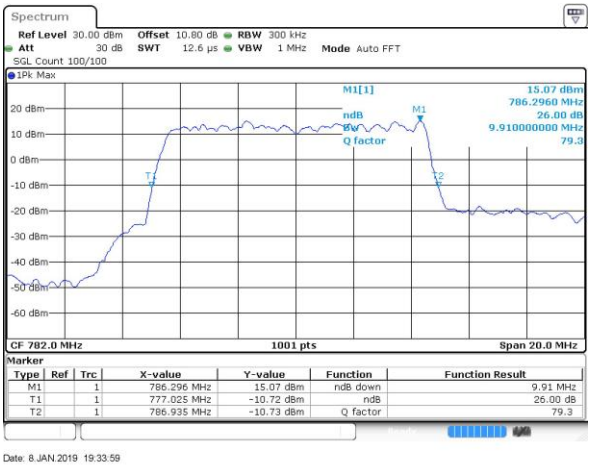
Lowest Channel / 5MHz / 64QAM



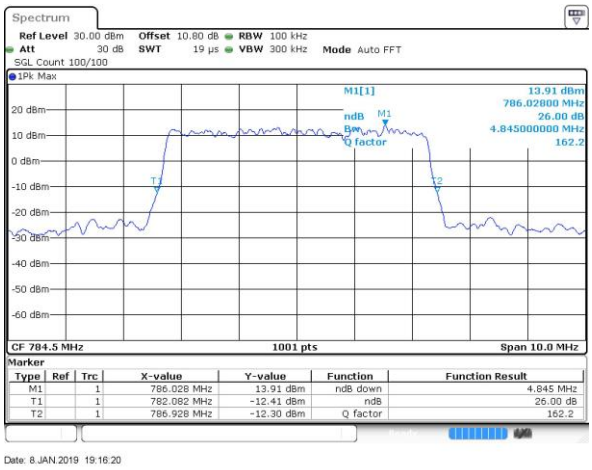
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

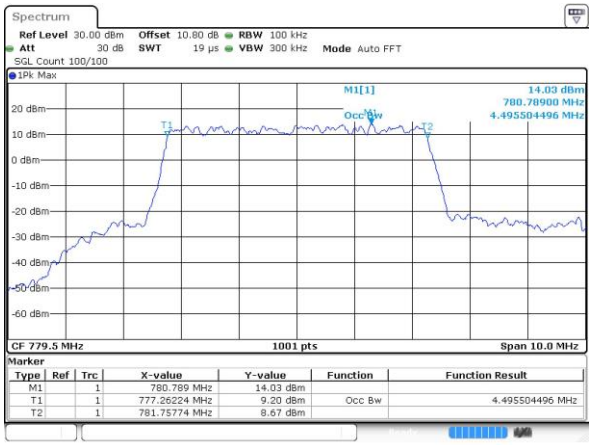


Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.5	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.49	9.01	9.09	-	-	-	-
Highest CH	-	-	-	-	4.49	4.48	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	-	-

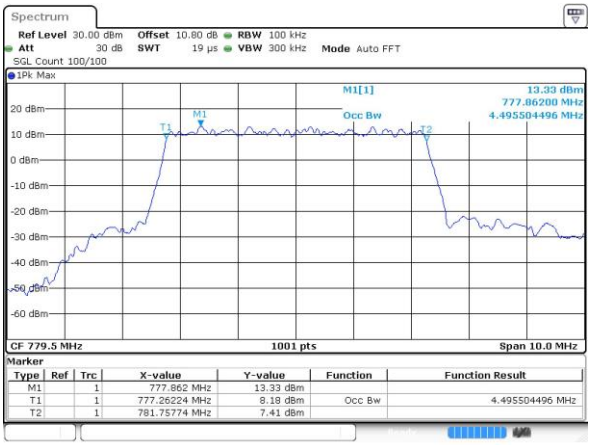
LTE Band 13

Lowest Channel / 5MHz / QPSK



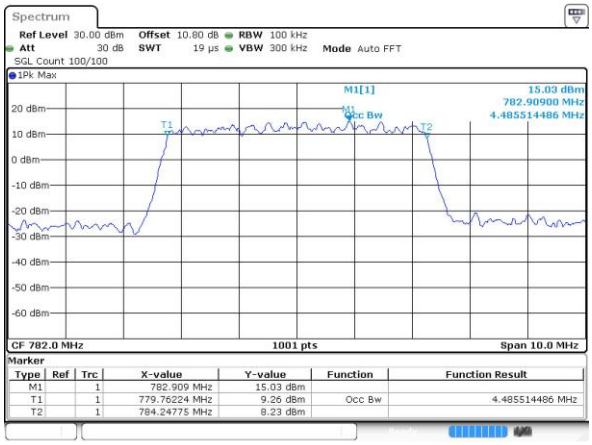
Date: 8.JAN.2019 18:47:54

Lowest Channel / 5MHz / 16QAM



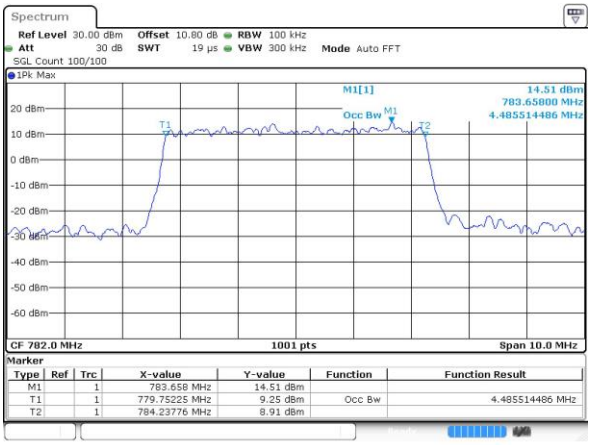
Date: 8.JAN.2019 18:48:07

Middle Channel / 5MHz / QPSK



Date: 8.JAN.2019 19:00:07

Middle Channel / 5MHz / 16QAM



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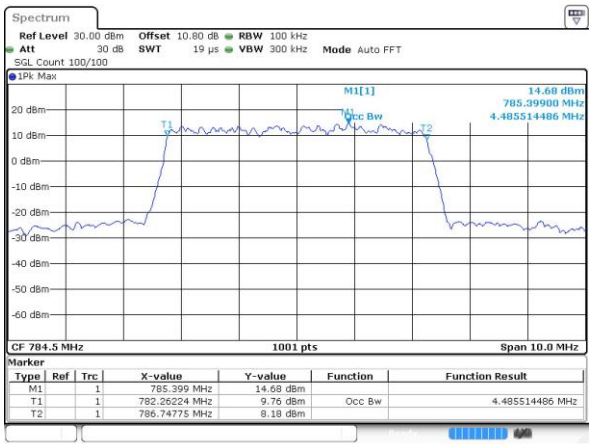
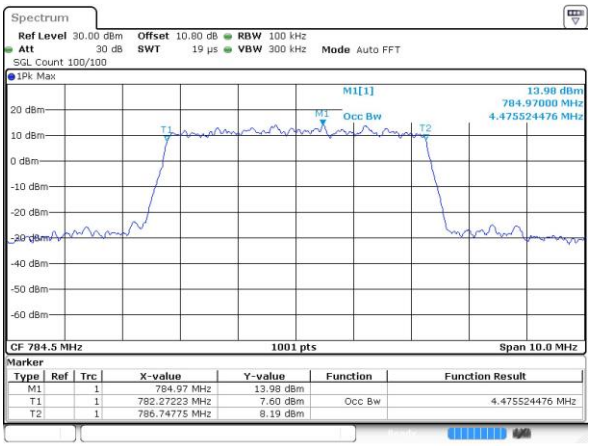
Highest Channel / 5MHz / QPSK

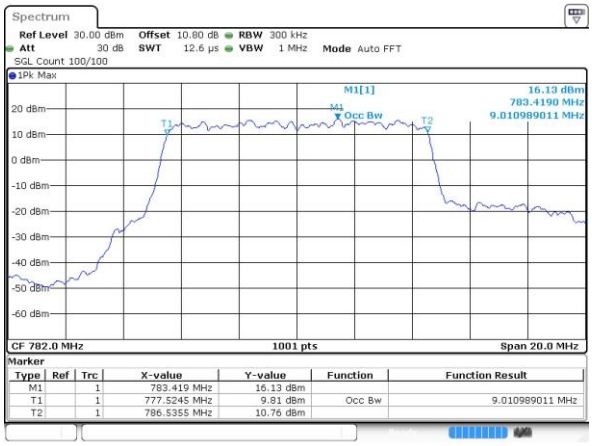
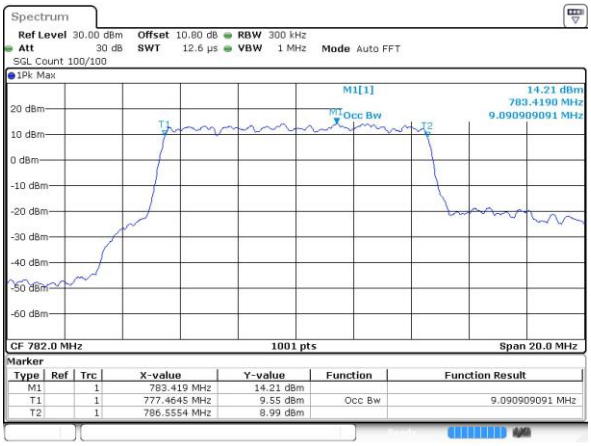


Date: 8.JAN.2019 19:00:19

Highest Channel / 5MHz / 16QAM

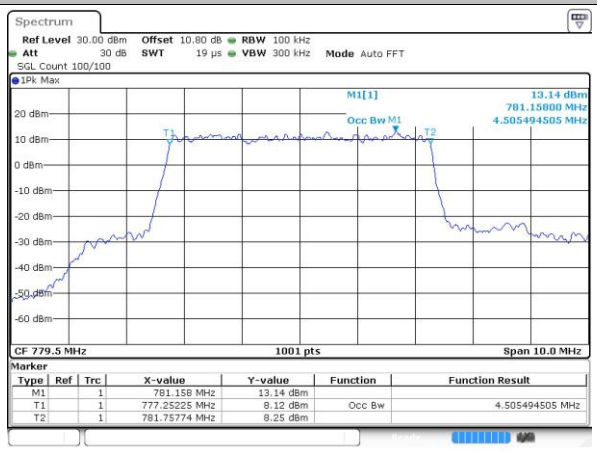


Date: 8.JAN.2019 19:00:31

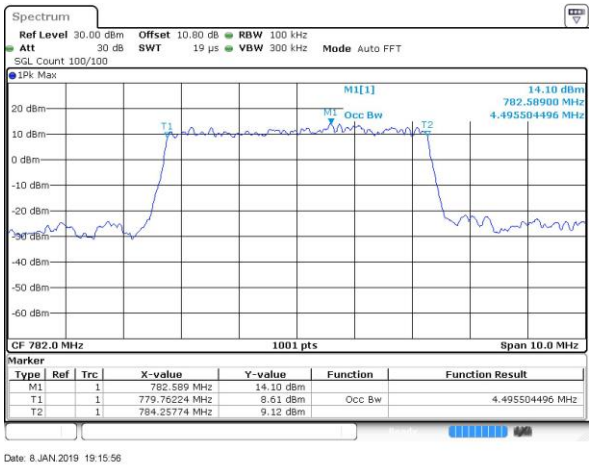
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 13

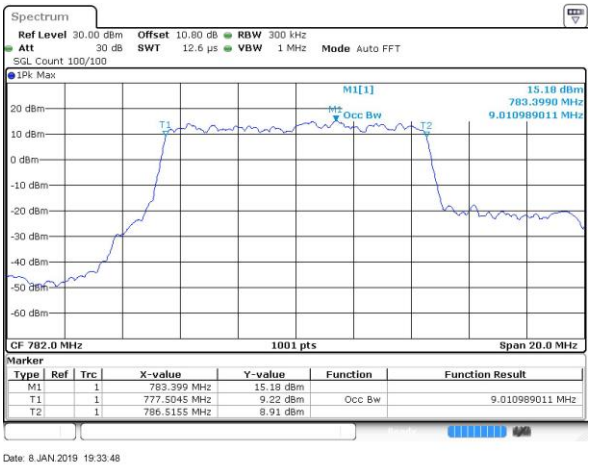
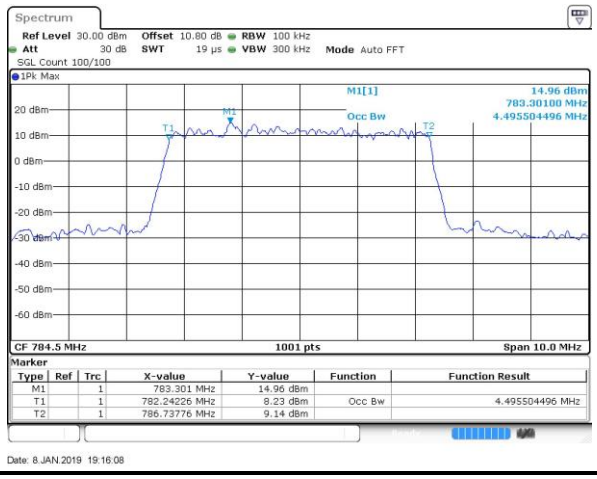
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM